

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/008415 A1

(51) International Patent Classification⁷: G08G 5/00
(21) International Application Number: PCT/EP2003/007486
(22) International Filing Date: 10 July 2003 (10.07.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data: RM2002A000371 10 July 2002 (10.07.2002) IT
(71) Applicant (for all designated States except US): MAR-
CONI SELENIA COMMUNICATIONS S.P.A. [IT/IT];
Via A. Negrone 1/A, I-16153 Genova (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and
(75) Inventor/Applicant (for US only): PENNAROLA, Mau-
rizio, Catello [IT/IT]; Via G. Verdi 44, I-00043 Ciampino
(IT).
(74) Agent: GERVASI, Gemma; Notarbartolo & Gervasi
S.p.A., Corso di Porta Vittoria, 9, I-20122 Milan (IT).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: AVIONIC SYSTEM AND GROUND STATION FOR AIRCRAFT OUT OF ROUTE MANAGEMENT AND ALARM COMMUNICATIONS

(57) Abstract: An avionic system and ground station for aircraft out of route management and alarm communications composed of an avionic device, which is fitted onboard the aircraft, with a memory unit for storing the flight paths data, runways, orography, and obstacles; processors to compute the stored or received data, available from sensors monitoring the onboard situation. Processors will compute commands to be sent to the aircraft's autopilot to temporarily take over the aircraft control and return it to pre-set flight levels or spatial positions; communication devices suitable for transmitting the real time onboard situation to ground control stations when potentially dangerous events occur.

WO 2004/008415 A1